

GEOHYDROLOGIC UNITS OF LOUISIANA

System	Series	Stratigraphic Unit		Hydrogeologic Unit								
				Northern Louisiana	Central Louisiana		Southwestern Louisiana		Southeastern Louisiana			
				aquifer or confining unit	aquifer system or confining unit		aquifer or confining unit		aquifer system or confining unit ¹	aquifer or confining unit ²		
Lake Charles area	rice growing area	Baton Rouge area	St. Tammany, Tangipahoa, and Washington Parishes				New Orleans area and lower Mississippi River Parishes ³					
Quaternary	Pleistocene	Red River alluvial deposits Mississippi River alluvial deposits Northern Louisiana terrace deposits Unnamed Pleistocene deposits		Red River alluvial aquifer or surficial confining unit Mississippi River alluvial aquifer or surficial confining unit Upland terrace aquifer or surficial confining unit	Alluvial aquifer, undifferentiated or surficial confining unit Prairie aquifer Montgomery aquifer Williana-Bentley aquifer	Chicot aquifer system or surficial confining unit	"200-foot" sand "500-foot" sand "700-foot" sand	Upper sand unit Lower sand unit	Chicot equivalent aquifer system or surficial confining unit	Mississippi River alluvial aquifer or surficial confining unit Shallow sand "400-foot" sand "600-foot" sand	Upland terrace aquifer Upper Pontchatoula aquifer	Gramercy aquifer Norco aquifer Gonzales-New Orleans aquifer "1,200-foot" sand
Tertiary	Pliocene	Fleming Formation	Blounts Creek Member	units absent	Evangeline aquifer or surficial confining unit			Evangeline equivalent aquifer system or surficial confining unit	"800-foot" sand "1,000-foot" sand "1,200-foot" sand "1,500-foot" sand "1,700-foot" sand	Lower Pontchatoula aquifer Big Branch aquifer Kentwood aquifer Abita aquifer Covington aquifer Slidell aquifer		
			Castor Creek Member		Castor Creek confining unit							unnamed confining unit
	Miocene		Williamson Creek Member Dough Hills Member Carnahan Bayou Member		Jasper aquifer system or surficial confining unit	Williamson Creek aquifer Dough Hills confining unit Carnahan Bayou aquifer		Jasper equivalent aquifer or surficial confining unit	unnamed confining unit			
			Lena Member		Lena confining unit			unnamed confining unit				
	Oligocene	Catahoula Formation			Catahoula aquifer			Catahoula equivalent aquifer system or surficial confining unit	no freshwater occurs in deeper units			
		Vicksburg Group, undifferentiated			Vicksburg-Jackson confining unit							
	Eocene	Jackson Group, undifferentiated										
		Claiborne Group	Cockfield Formation		Cockfield aquifer or surficial confining unit							
			Cook Mountain Formation		Cook Mountain aquifer or confining unit							
			Sparta sand		Sparta aquifer or surficial confining unit							
			Cane River Formation		Cane River aquifer or confing unit							
			Carrizo sand		Carrizo-Wilcox aquifer or surficial confining unit							
	Paleocene	Wilcox Group, undifferentiated			Wilcox aquifer							
		Midway Group, undifferentiated			Midway confining unit							

¹ The interval containing the four aquifer systems is referred to as the Southern Hills aquifer system.
² Clay units separating aquifers in southeastern Louisiana are discontinuous, unnamed, and not listed herein.
³ The interval containing the four aquifers is referred to as the New Orleans aquifer system.

Figure 2-41: Hydrostratigraphic Column for the State of Louisiana from the United States Geological Survey. The red box outlines northern Louisiana where the Project Area of Interest is located.